



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION

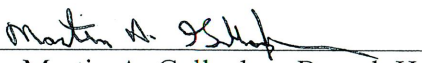
**PERMIT TO OPERATE A SEPTAGE LAND  
APPLICATION SITE**

Jeff Lawson Septic Tank & Pumping Service  
Jeff Lawson  
2984 NC 8 Hwy North  
Danbury, NC 27016

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-85-06** located on SR#1497 in Stokes County in approximate position 36.48732° N latitude and -80.24697° W longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued 12/20/2012

  
Martin A. Gallagher, Branch Head  
Composting & Land Application Branch

### CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by Jeff Lawson and approved by the Division of Waste Management. **The 3.6-acre site is divided into two fields known as Field 1 (2.4 acres) and Field 2 (1.2 acres).** The 30 day waiting period between the last application of septage and the harvest of a crop shall be maintained by rotating between the two fields. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by Jeff Lawson in such a manner as to prevent the migration of wastes off of the designated waste receiving site. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.
4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application.

7. **This site contains approximately 3.6 acres that are available for land application of septage.** The maximum annual application rate shall be 50,000 gallons per acre per year, for a total, maximum annual application of 180,000 gallons. This application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. **Application amounts to the fields shall not exceed the maximum annual application rate or the monthly rates as listed in the approved nutrient management plan.**
8. An approved above ground septage detention system with a minimum design capacity of 3,461 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.
10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.
14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.

15. **This permit shall expire on January 1, 2017.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838 (e) (1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17 (b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.
18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained at least 500 feet from any existing wells, residences, places of business, or places of public assembly. Septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

December 20, 2012

Mr. Jeff Lawson  
Jeff Lawson Septic Tank & Pumping Service  
2984 NC 8 Hwy North  
Danbury, NC 27016

**RE: SLAS permit renewal  
Jeff Lawson Septic Tank & Pumping Service  
SLAS-85-06  
SR#1497 in Stokes County**

Dear Mr. Lawson:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Stokes County. Your application has been approved and your permit, # **SLAS-85-06**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until January 1, 2017. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have prior approval from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

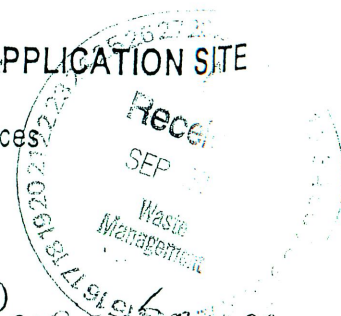
If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie Wylie, Soil Scientist  
Composting & Land Application Branch

# APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources  
Division of Waste Management – Solid Waste Section  
401 Oberlin Rd., Ste. 150, Raleigh, N.C. 27605



## I. Site and Operator Information

1. Applicant

Address

Phone

Jeff Lawson Septic Tank & Pumping Service  
2984 NC 8 Hwy. North  
Danbury, NC 27016  
336 593 2746

2. Contact person for site operation (if different from applicant):

Title or position

Address

Phone

Jeff Lawson  
owner  
2984 NC 8 Hwy. North  
Danbury, NC 27016  
336 593 2746

3. Landowner

Address

Bobby Joe Mabe & Mary S. Mabe  
P.O. Box 354  
Danbury, NC 27016

4. Site Location:

County Stokes

State Road Number 1497

Directions to site: I-40 to Winston Salem take Exit 52 N to Hwy. 8 & Germanton exit,  
Follow #8 North to Lawsonville then take a left onto Piney Grove Church Rd.  
beside Lawsonville Post Office, go 1/2 mile & take a Right on Hart Rd. Take 4th drive on  
left to site.

5. Indicate whether request is: new \_\_\_\_\_ renewal ☒ modification \_\_\_\_\_

For a permit renewal or modification, provide the following information:

Existing site permit number: 85-06 permit expiration date: 4/4/12

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 3.4  
acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:

(a) None ☒, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). *If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.*

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report.

10. Attach a vicinity map (county road map showing site location).

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan
2. Soil Erosion and Runoff Control Plan
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): 85-06 site

4. Types of septage proposed to be discharged at the site (check all that apply):

- (a) Domestic septage pumped from septic tanks ☒
- (b) Grease trap pumpings \_\_\_\_\_
- (c) Portable toilet waste \_\_\_\_\_
- (d) Commercial / Industrial septage \_\_\_\_\_

5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): 50 lb. bag of lime per 1000 gallons

of septage with pH level of 12  
add enough hydrated lime to raise pH to 12, hold at 12 for 1/2 hr  
then land apply. 5L

6. Proposed method of applying septage to land, including septage distribution plan if required \* (use additional paper to explain if necessary): Evenly distributed over

septage site from a moving truck under  
pressure.

7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law \*\* or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): The site is  
agricultural land.

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

Jeff Lawson  
Signature\*\*\*

Jeff Lawson  
Print name

6-21-12  
Date

Owner  
Title

Note: This application will not be reviewed until all parts of the application are complete.

\* Refer to Section .0821(e) of the N.C. Septage Management Rules.

\*\* Refer to Section .0821(g) of the N.C. Septage Management Rules.

\*\*\*Signature of company official required.

SLAS # 85-06

NCS# 00457

**Landowner's Authorization to Operate a Septage Land Application Site**

North Carolina Department of Environment and Natural Resources  
Division of Waste Management - Solid Waste Section  
1646 Mail Service Center, Raleigh, NC 27699-1646

I, Mary S. Mabe (name of site owner) hereby certify that I am the owner of  
3.4 acres of land located 1497 Hart Rd. Lawsonville, NC  
and identified by Book 226 on page 877 (book and page of recorded deed  
or tax map parcel) and that I agree to allow Jeff Lawson (name of site  
operator) to use said land for septage land application for a period of 5 years (length  
of time), beginning January 1, 2012 (month, day and year) and that I have read the  
North Carolina Septage Management Rules \*, and I understand and agree to maintain the restrictions on  
land use after septage land application ends \*\*. I further understand that no septage may be land applied  
until the Division of Waste Management has issued a permit for a septage land application site. The above  
described property is owned solely by me or jointly with Mary S. Mabe  
\_\_\_\_\_ (names of all co-owners, or state none).

Signature of landowner Mary S. Mabe by Date 3-22-12  
Jeff Lawson PCA  
Signature of landowner \_\_\_\_\_ Date \_\_\_\_\_

Sworn to and subscribed before me this 22nd day of MARCH, 2012.

Shawn Nelson Jayce  
(Notary Public)

(OFFICIAL SEAL)

My Commission expires: August 19, 2015

\* 15A N.C. Admin. Code 13B Section .0800

\*\* As required by Rule .0843

RECEIVED

MAR 26 2012

DENR-FAYETTEVILLE REGIONAL OFFICE

NUTRIENT MANAGEMENT PLAN - JEFF LAWSON SEPTIC TANK AND PUMPING  
SITE #85-06

05 October 2006



General Information:

Periodic sampling of the septage will be conducted for waste analysis (at least twice annually).

Refer to enclosed map of site. Site #85-06 totals about 3.4 acres of application area. Field #1 is about 2.4 acres and Field #2 is about 1.0 acre. Maps obtained from Farm Service Agency, Stokes County. The dominant soil series at the sites is Pacolet Sandy Clay Loam.

Septage will not be applied where the site is untrafficable. (Untrafficable is defined as soil that will allow a loaded truck to leave a depression in sod greater than 3 inches in depth).

Septage storage is provided to account for the average volume of septage pumped per week. Adequate storage is available when weather conditions prohibit land application with 2 - 5000 gallon tanks.

Crops to be grown and approximate planting times:

Fields #1 (refer to map) has a good vegetative cover of tall fescue and aggressively expanding areas of bermudagrass. Field #2 has a good vegetative cover of tall fescue with small areas of bermudagrass. Both fields are to be no-till drilled with annual ryegrass in October.

The tall fescue and bermudagrass with overseeding in the fall with annual ryegrass will provide a durable, long lasting crop cover for septage disposal. The fields will be managed to maintain a cover of fescue/bermudagrass/annual ryegrass with periodic maintenance and cropping practices recommended by the Cooperative Extension Service. These practices include (but not limited to) soil sample yearly, lime and fertilize according to soil sample results, timely harvest (as explained in later section), overseed site to maintain actively growing crop in fall and winter with 15-20 pounds per acre of annual ryegrass (preferably in September) and aerate the site every three years (preferably in May) to prevent soil compaction. Overseeding should be done after light soil preparation with a disc harrow and soil and seed firmed with a cultipacker after seeding or seed with a no-till drill. At any time that the grass cover is reduced below 75% stand, the field will be immediately reseeded to a recommended fescue, with or without an annual ryegrass, depending upon the time of year. Rates will be as recommended by Cooperative Extension at the time.

Nitrogen needs for crops grown:

R.Y.E. = Realistic Yield Expectations

N App. Rate = Suggested N application rate based on R.Y.E. for soil type.

Crop (cut for hay)	R.Y.E.	N App. Rate	Reduction Factor	lbs. N/acre
Fescue/ Bermuda grass	4.0 tons/A	x 44 lbs. N/dry ton	x 0.00	= 160
Annual ryegrass	2.0 tons/A	x 25 lbs. N/dry ton	x 0.00	= 50
		Total		210

Relative application rate for Site #85-06

Month	Rate
January	Low
February	Low
March	Medium
April	High
May	Medium
June	High
July	High
August	Medium
September	Medium
October	Low
November	Low
December	Low

None = 0 gallons;

Low = 5,000 gallons

Medium = 10,000 gallons

High = 15,000 gallons

Note: Cumulative application rate is not to exceed the permitted application rate.

Application Method:

The preceding information is based on septage being evenly applied over the entire permitted site by tank truck equipped with splashboard attachment. Approximately 50 lb. of limestone will be added per 1000 gallons of septage to achieve a desired pH of 12.0 or higher. The septage will remain in this high pH environment 30 minutes prior to application.

Additional Fertility Requirements:

Soil samples will be taken yearly. The disposal site and buffer areas will be fertilized according to sample recommendations.

NOTE: The phosphorus requirement can be reduced by taking into consideration the phosphorus from the septage analysis, if an analysis is available.

Harvest of the crops and their use:

1. The fescue/bermudagrass on each field will be cut as hay and baled when it reaches approximately 12 inches in height, or about every 4-6 weeks beginning in June. Approximately three or four harvests can be expected.
2. The ryegrass will be cut and baled in March and April.
3. Septage application and mowing and baling will be rotated between Field #1 and Field #2. The hay will be cut after waiting 30 days from the last septage application. The hay will be fed to beef cattle.

**SOIL EROSION AND RUNOFF CONTROL PLAN**

Site #85-06

With the current stand of vegetation (bermudagrass and tall fescue) plus completion of recommended maintenance, the application sites should have adequate crop cover to receive and absorb the recommended rate of septage. In areas not yet covered with bermudagrass, if vegetation becomes thin, fescue will be overseeded at the rate of 15-20 pounds per acre to maintain adequate ground cover and erosion control. The application areas are marked with flags and/or stakes, thus maintaining the minimum allowable distances from streams, ponds and property lines. Septage applied within the marked limits should not cause any runoff problems.

Site will be maintained to provide good crop cover. See maintenance recommendations in previous section. A good crop stand will prevent any problems from erosion and runoff.

Please see map enclosed.

Submitted by

Jeff Lawson

Date:

12-7-11

\* Jeff Lawson  
Signature

6-21-12  
Date

Plan prepared

with assistance of Jack Loudermilk, NC Cooperative  
Extension, POB 460, Danbury, NC 27016

SLAS # 85-06 NCS # 00457

Jeff Lawson Septic Tank + Pumping Service

Add to Nutrient Management Plan

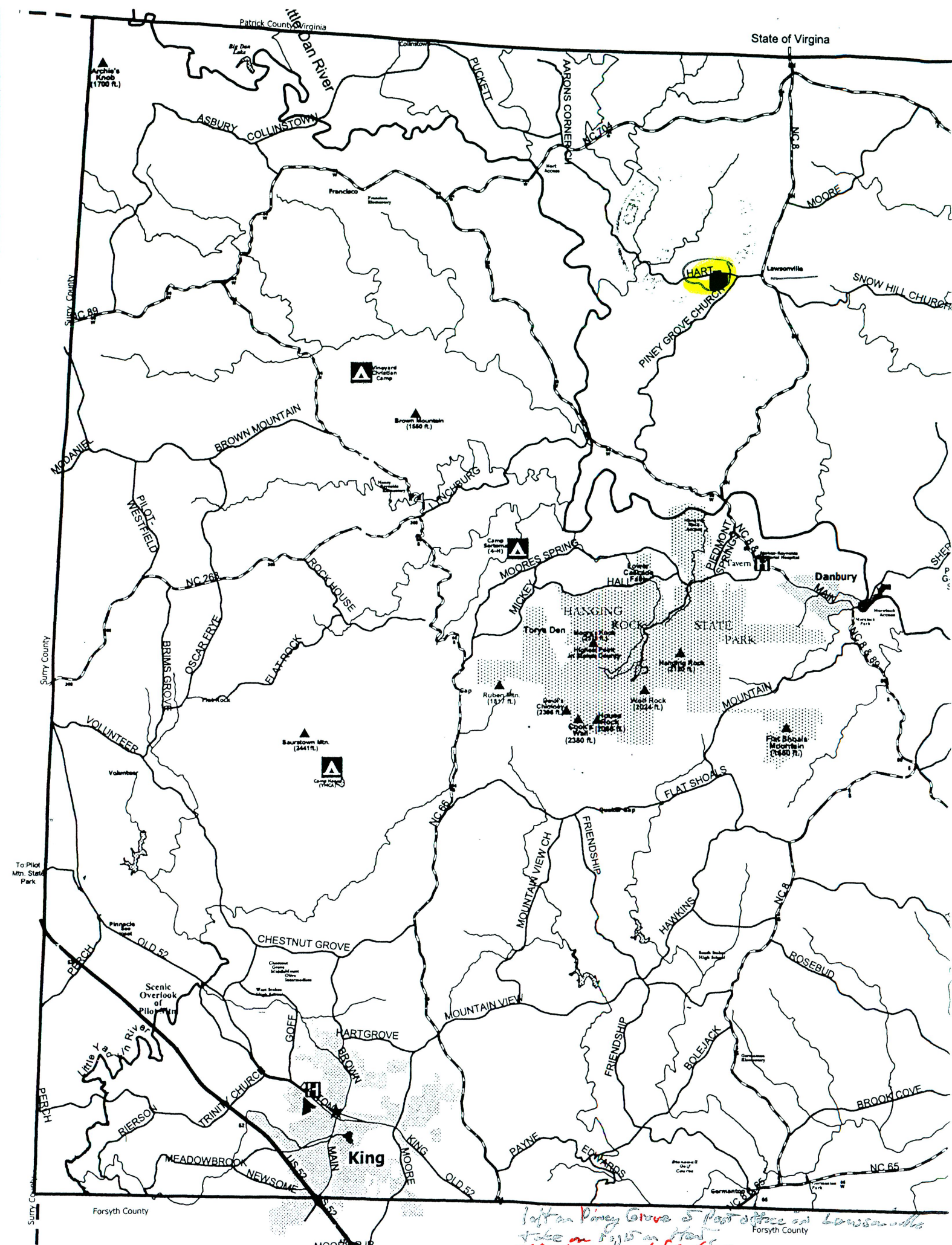
Starting in November every 2 weeks rotate discharging between field #1 and field #2 thru February. Rye grass will be harvested in March and April.

Starting in March thru October after the last application of domestic septage a 30 day rotation pattern will be done between field #1 and field #2. The fescue and bermuda grass will be harvested when it reaches approximately 12 inches in height.

Jeff Lawson  
12-7-11

\* Jeff Lawson  
Signature

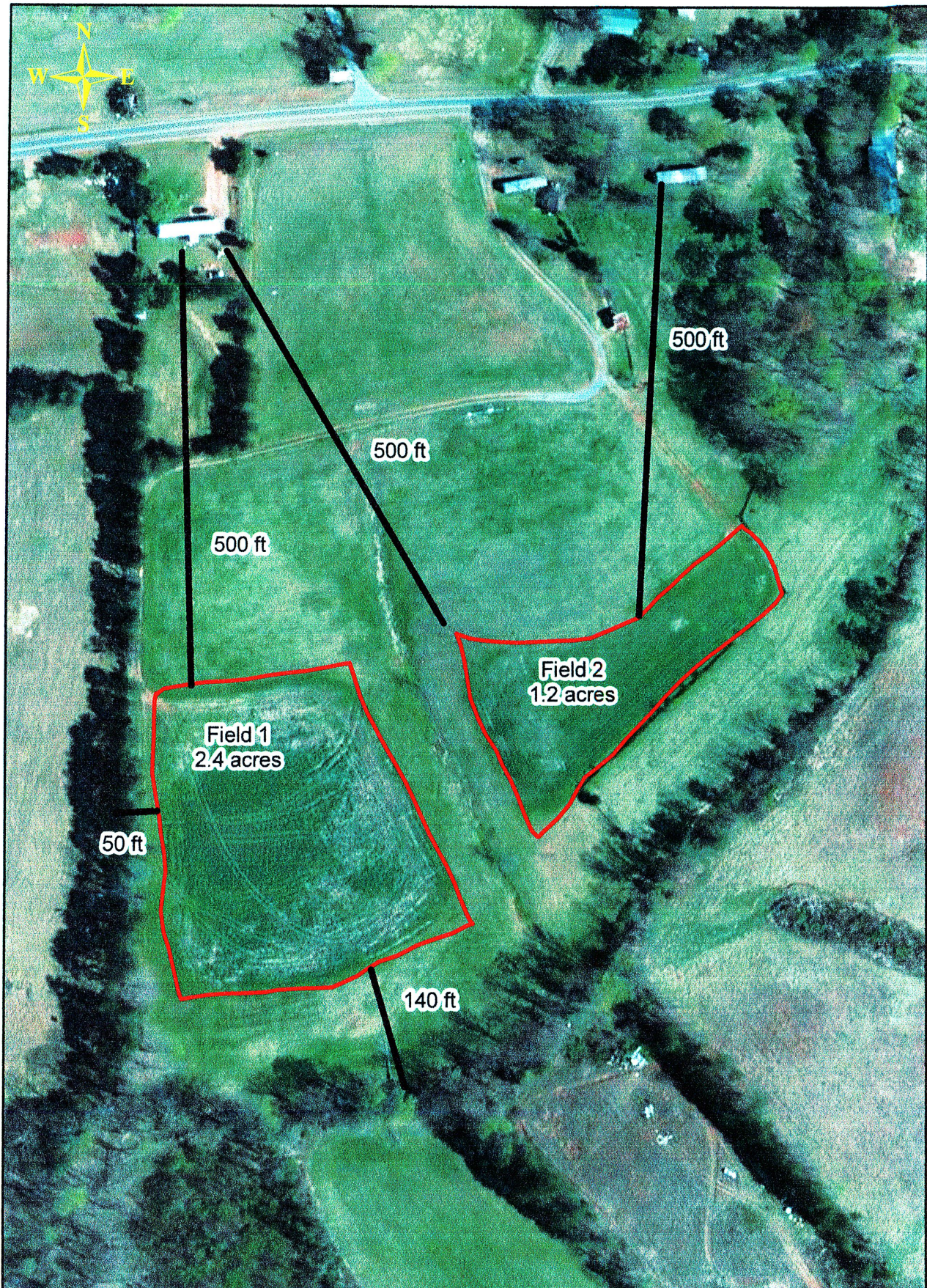
6-21-12  
Date



Left on Piney Grove St past office on State on right on Hart 400' drive on left / site

# SLAS-85-06

36.48732° N latitude  
-80.24697° W longitude



Source: Bing Maps aerial imagery, ESRI, (c) 2010 Microsoft Corporation and its data suppliers; site boundary, NC DENR Division of Waste Management.